



KLAUS J. BACH & ASSOCIATES
PATENTS AND TRADEMARKS
4407 TWIN OAKS DRIVE
MURRYSVILLE, PA 15668 USA
TEL: 724-327-0664
FAX: 724-327-0004

#4 0300

Case KIP 002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Norio Miura et al.
SN: 09/887,507 Filing Date: 22/06/01

Title: AN APPARATUS FOR MEASURING A MEDICAL SUBSTANCE, A SENSOR
FOR USE IN THE APPARATUS, AND A SENSING ELEMENT FOR USE IN THE
SENSOR

Hon. Commissioner of Patents and Trademarks
Washington, DC 20231

September 3, 2001

SIR:

INFORMATION DISCLOSURE STATEMENT - SECTION 1.97(b)

Under the provisions of 37 C.F.R. Section 1.56, and in accordance with 37 C.F.R. Sections 1.97 and 1.98, applicants' representative hereby submits U.S. Patent & Trademark Office Form PTO-1449. Copies of the references cited therein are submitted for consideration in the examination of the above-referenced patent application. It is respectfully requested that they be made of record, along with whatever references the Examiner may find in the course of a search, should the Examiner consider them material to the subject application.

In accordance with Section 1.97(b), this information is being submitted within three (3) months of the filing date of 22/06/01 for this application.

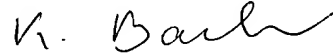
The US patents were cited during prosecution of the basic application in the US.

The publications have been supplied by the inventors as relating to the subject matter of the application.

However, the references do not disclose an apparatus for measuring a medical substance where a prism having a high refractive index, a thin metal film formed on one of the surfaces of the prism, a light source for making a light incident upon the thin metal film, and a detector for detecting an incident angle of a light being made incident upon a film on which a plasmon resonance phenomenon is generated on the thin metal film are

provided. The medical substance, i.e. antigen as an object to be measured, is fixed to the surface of the thin metal film, and the condition for generating the plasmon resonance phenomenon is varied when a mixture of antibody which is coupled with the medical substance in a specific manner and a sample is made contact with a surface of the thin metal film; and the amount of the medical substance can be detected by recognizing the change with a high sensitivity.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'K. Bach', written in dark ink.

Klaus J. Bach, Reg. No.: 26832

